

Claims

- [1] A capacitive touch pad comprising first and second layers,
the first layer comprising a non-conductive cover providing galvanic isolation of the second layer,
the second layer comprising a plurality of row-shaped row-sensing electrodes and a row-by-column array of column-sensing electrodes,
each column of column-sensing electrodes interconnected by conductive traces, the row-sensing electrodes and column-sensing electrodes defining interleaved combs therebetween, each comb comprising at least two fingers.
- [2] The capacitive touch pad of claim 1 wherein the fingers are no wider than eight mils.
- [3] The capacitive touch pad of claim 1 wherein the fingers define spaces therebetween, and the spaces are no wider than eight mils.
- [4] The capacitive touch pad of claim 1 further comprising a third layer, the second layer lying between the first and third layers, the third layer comprising a ground plane.
- [5] The capacitive touch pad of claim 4 further comprising a fourth layer, the third layer lying between the second and fourth layers, the fourth layer bearing circuitry.
- [6] The capacitive touch pad of claim 1 wherein in the second layer further comprises annular copper around the electrodes.
- [7] The capacitive touch pad of claim 6 wherein the annular copper is connected to ground potential.
- [8] The capacitive touch pad of claim 1 further comprising an isolator/dielectric layer between the first and second layers.
- [9] The capacitive touch pad of claim 4 further comprising an isolator/dielectric layer between the second and third layers.
- [10] The capacitive touch pad of claim 5 further comprising an isolator/dielectric layer between the third and fourth layers.